COURSE OUTLINE

THEORY—MINIMUM 40 HOURS

UNIT	TOPIC	HOURS*
I	LEGAL ASPECTS AND PRACTICE OF IV THERAPY	1
п	REVIEW OF ANATOMY AND PHYSIOLOGY	6
Ш	FLUID AND ELECTROLYTE BALANCE	10
IV	EQUIPMENT AND PROCEDURES IN IV THERAPY	14
\mathbf{v}	COMPLICATIONS, PREVENTION, AND NURSING INTERVENTIONS	6
VI	MEDICATIONS	3
	MINIMUM NUMBER OF THEORY HOURS	40

^{*}This column indicates the minimum number of hours which must be allocated to the content. The actual number of hours may be increased if necessary, depending on the faculty and the students.

CLINICAL—MINIMUM 40 HOURS

The student must successfully complete all skills, activities and procedures outlined on the clinical performance checklist and must do so at or above a satisfactory level.

MBN Approved 11-14-91

THEORY: MINIMUM 40 HOURS

PURPOSE: The theory portion of this course is designed to prepare qualified License Practical

Nurses to perform the expanded role of IV therapy as outlined in the Mississippi

Nursing Practice Law, Rules and Regulations.

OBJECTIVES: At the completion this course, the Licensed Practical Nurse shall be able to:

- 1. Summarize the major legal implications of IV therapy relative to state regulations and agency policy.
- 2. Summarize the major legal requirements of the nurse.
- 3. Identify and locate peripheral veins used for venipuncture and list factors that influence their size and condition.
- 4. Identify IV equipment used in administering IV solutions; indicate the criteria for use, and list precautions and complications of each.
- 5. Discuss and demonstrate nursing responsibilities in preparation for and during venipuncture.
- 6. Discuss and demonstrate nursing care of the patient with an IV infusion.
- 7. Summarize the fundamentals of fluid and electrolyte balance in relation to IV therapy.
- 8. Demonstrate understanding of fluid and electrolyte balance and classifications of IV fluids.
- 9. Discuss and demonstrate appropriate aseptic technique in IV therapy.
- 10. Compare and contrast the hazards and complications of IV infusions, their prevention, and nursing interventions.
- 11. Report and record all pertinent information related to IV therapy.
- 12. Apply correct principles for administering IV antibiotics by using reference material, scheduling administration of IV antibiotics, and calculating drug doses.

EVALUATION: The LPN must score at least 80% on each theory examination and at least 80% on the final comprehensive theory examination.

CLINICAL: Minimum 40 hours

PURPOSE: The clinical portion of this course is designed to develop proficiency in IV therapy

according to the scope of practice outlined in the Nursing Practice Law, Rules and

Regulations and in conjunction with agency policy.

OBJECTIVES: At the completion of this course, the License Practical Nurse shall be able to:

- 1. Correctly initiate peripheral IV therapy.
- 2. Correctly calculate prescribed IV infusion rate.
- 3. Provide ongoing care to the IV site.
- 4. Maintain patency of peripheral IV therapy lines using a flush solution.
- 5. Assist the Registered Nurse with central venous infusion by checking the infusion rate and changing the site dressing.
- 6. Observe and report patient responses to IV therapy.
- 7. Report, record and properly respond to complications or contraindications of IV therapy.
- 8. Discontinue peripheral IV therapy.

CLINICAL: During an affiliation with a clinical laboratory, the LPN must observe and then practice sticking peripheral veins for the purpose of withdrawing blood samples until the LPN is proficient in the procedure. No medications or fluids may be injected into the vein during this time.

PATIENT EXPERIENCE:

Following a period of observation, the LPN must participate in all phases of IV therapy which are within the scope of practice as outlined in the Mississippi Board of Nursing Rules and Regulations. The LPN must demonstrate proficiency in each step of each procedure.

EVALUATION: The LPN must perform satisfactorily on each clinical procedure and must implement all phases of IV Therapy to the satisfaction of the instructor. Three (3) unsatisfactory performances in any portion of any procedure shall result in the LPN's termination from the IV Therapy course.

UNIT I MINIMUM TIME ALLOTMENT

LEGAL ASPECTS AND PRACTICES

1 HOUR

OBJECTIVES: Upon the completion of this unit, the LPN shall be able to:

- 1. Identify the major legal implications of IV therapy.
- 2. Demonstrate understanding of the Nursing Practice Law, Rules and Regulations regarding the role of the LPN in IV therapy.
- 3. Discuss IV therapy policies of selected health care agencies.

CONTENT: 1. Course overview

- 2. Legal aspects of IV therapy
- 3. Expanded role of the LPN—Practice Law, Rules and Regulations
- 4. Scope of practice in IV therapy for the Expanded Role LPN
- 5. Health agency policies

UNIT II MINIMUM TIME ALLOTMENT

REVIEW OF ANATOMY AND PHYSIOLOGY

6 HOURS

OBJECTIVES: Upon the completion of this unit, the LPN shall be able to:

- 1. Demonstrate understanding of structure and function of the integumentary system as relates to IV therapy.
- 2. Demonstrate understanding of structure and function of the circulatory system as relates to IV therapy.
- 3. Demonstrate understanding of structure and function of the respiratory system as relates to IV therapy.
- 4. Demonstrate understanding of structure and function of the urinary system as relates to IV therapy.
- 5. Identify and locate peripheral veins used for venipuncture.
- 6. Differentiate the anatomic characteristics of veins and arteries.
- 7. Identify signs of an inadvertent arterial puncture.
- 8. Identify factors that influence the size and condition of the veins.

CONTENT:

- 1. Integumentary system
- 2. Circulatory system
- 3. Respiratory system
- 4. Urinary system
- 5. Vein structure and location (peripheral)
 - a. Structure and function
 - (1) Endothelial lining
 - (2) Valves
 - (3) Carry blood toward heart
 - (4) Thinner than arteries
 - b. Location
 - (1) Arm—deep and superficial
 - (2) Leg—deep and superficial

UNIT III

MINIMUM TIME ALLOTMENT

FLUID AND ELECTROLYTE BALANCE

10 HOURS

OBJECTIVE: Upon the completion of this unit, the LPN shall be able to:

- 1. Identify body fluid compartments and electrolyte compositions.
- 2. Define fluid deficit, fluid maintenance and fluid replacement.
- 3. List effects of isotonic, hypotonic, and hypertonic IV fluids.
- 4. List and classify common parenteral fluids.
- 5. Identify electrolyte norms in laboratory reports on blood samples.
- 6. Discuss the normal methods of fluid and electrolyte intake and output.
- CONTENT: 1. Elements found in intracellular and extracellular fluid.
 - 2. Passage of substances through membranes
 - a. Osmosis
 - b. Diffusion
 - 3. Types of IV fluids
 - a. Isotonic
 - b. Hypotonic
 - c. Hypertonic
 - 4. Body's reaction to dehydration and overhydation
 - 5. Functions of electrolytes, with emphasis on potassium, sodium and chloride
 - 6. Electrolyte norms in blood tests

UNIT IV

MINIMUM TIME ALLOTMENT

EQUIPMENT AND PROCEDURES IN IV THERAPY

14 HOURS

OBJECTIVES: Upon completion of this unit, the LPN shall be able to:

- 1. Demonstrate appropriate medical and surgical aseptic technique.
- 2. Explain the purpose of infection control.
- 3. Identify the types of organisms that cause infections of IV sites and fluids.
- 4. List factors that contribute to the growth of microorganisms.
- 5. Correctly interpret orders for initiating and discontinuing IV therapy.
- 6. Demonstrate skill in documenting and reporting promptly all pertinent information.
- 7. Evaluate and accurately describe patient observations during and following IV infusion.
- 8. Discuss legal responsibilities and other important considerations in maintaining proper records.
- 9. Identify various types of equipment and supplies available for use in IV therapy.
- 10. Discuss the responsibility of the nurse in preparing the patient psychologically for venipuncture.
- 11. Select veins suitable for venipuncture.
- 12. List factors to be considered in selection of a vein.
- 13. Describe dangers associated with the use of veins of the lower extremities.
- 14. List factors to be considered in selecting a cannula for venipuncture.
- 15. Demonstrate technique and discuss the possible adverse reactions related to the administration of subcutaneous xylocaine as a local anesthetic prior to venipuncture.
- 16. Demonstrate technique of venipuncture using various devices.
- 17. Demonstrate and discuss securing a device, tubing and extremity for IV therapy.
- 18. Discuss the nurse's role in maintaining the infusion.
- 19. Identify methods of distending veins.
- 20. Demonstrate skill in calculation of IV infusion rates.
- 21. Identify factors which influence rate of infusion.
- 22. Safely discontinue IV infusion.
- 23. Observe and provide care for IV equipment and site.

CONTENT: 1. Terminology

- 2. Infection control
- 3. Safe technique in preparing, initiating, monitoring and discontinuing IV therapy
- 4. Equipment and supplies
 - a. Types
 - b. Advantages and disadvantages
 - c. Packaging of solutions
 - d. Labeling (including expiration dates)
 - e. Safe handling
- 5. Solutions
 - a. Types
 - b. Reading labels
- 6. Asepsis—Medical and surgical procedures review
- 7. Sites
- 8. Techniques
 - a. Preparing IV
 - (1) Equipment, supplies, solutions
 - (2) Bubbles in tubing
 - (3) Patient's clothing
 - (4) Height of IV pole
 - b. Initiating IV
 - (1) Administration of subcutaneous xylocaine
 - (2) Insertion of IV—needles, catheters, butterflies
 - (3) Securing IV and site dressing
 - c. Monitoring
 - (1) Infusion rate
 - (2) Patient
 - (3) Intake and output
 - d. Site care
 - (1) Peripheral lines
 - (2) Central lines
 - e. Recording and reporting

NOTE: LPN must practice skill of initiating IV on training arm until proficient.

UNIT V MINIMUM TIME ALLOTMENT 6 HOURS

COMPLICATIONS, PREVENTION AND NURSING INTERVENTIONS

OBJECTIVES: Upon the completion of this unit, the LPN shall be able to:

- 1. List complications of IV therapy.
- 2. List and describe symptoms of each complication.
- 3. Discuss preventive measures in systemic and local complications.
- 4. Discuss appropriate nursing interventions for complications of IV therapy.

CONTENT: 1. Signs and symptoms of complications

- 2. Preventive measures
- 3. Treatment measures
- 4. Nursing interventions

UNIT VI MINIMUM TIME ALLOTMENT

MEDICATIONS 3 HOURS

OBJECTIVES: Upon the completion of this unit, the LPN shall be able to:

- 1. Match terms and abbreviations associated with IV medications.
- 2. Distinguish among ways IV antibiotics are used.
- 3. State the five "rights" of administering medications and additional "rights" associated with administration of IVantibiotic medications.
- 4. List facts to determine regarding an IV antibiotic medication before administration.
- 5. Identify safety measures to observe when administering IV antibiotic medications.
- 6. List medication information to be obtained in a nursing history.
- 7. Distinguish among methods of administering IV antibiotic medications.
- 8. State nursing responsibilities and interventions with regard to the administration of IV antibiotic medications.
- 9. List the effects of drug incompatibilities.
- 10. Describe types of drug incompatibilities.
- 11. Discuss factors that affect compatibilities.
- 12. State nursing responsibilities and interventions with regard to avoiding incompatibilities.
- 13. Define and describe potential untoward reactions and side effects.
- 14. Name the body systems affected by untoward reactions.
- 15. Identify nursing responsibilities and interventions with regard to untoward reactions and side effects.
- 16. State the formula for calculation of drug doses.
- 17. Schedule the administration of IV antibiotic medications.
- 18. Calculate drug doses and dilutions.

CONTENT: 1. Terms and abbreviations associated with IV medications

- 2. Ways drugs are used
 - a. Diagnostic
 - b. Prophylactic
 - c. Therapeutic
- 3. "Rights" of administering IV antibiotics
 - a. Medication, dose, route, time, patient
 - b. Method or mode; length of infusion time; incompatibilities
- 4. Facts to determine about an IV antibiotic before administration
 - a. Average dose
 - b. Route of administration
 - c. Length of time of infusion
 - d. Expected action (effect)
 - e. Common untoward reactions (side effects)
 - f. Incompatibilities
- 5. Safety measures to observe when administering IV antibiotics
- 6. Medication information to be obtained in a nursing history
- 7. Methods of administering IV antibiotic medications
 - a. Intermittent infusion
 - b. Continuous infusion
- 8. Nursing responsibilities and interventions with regard to administration of IV antibiotic medications
- 9. Incompatibilities
 - a. Effects
 - b. Types
 - c. Nursing responsibilities and interventions
- 10. Factors that affect compatibilities
- 11. Untoward reactions or side effects
 - a. Terms
 - b. Types
 - c. Body systems affected
 - d. Nursing responsibilities and interventions

12. Calculation of drug doses

PROCEDURE: BLOOD SAMPLE WITH VACUTAINER

- 1. Check medical order
- 2. Gather equipment
- 3. Identify patient
- 4. Wash hands
- 5. Wear gloves
- 6. Locate peripheral vein on correct patient
- 7. Clean area using a circular motion with antiseptic swab
- 8. Screw needle into plastic holder
- 9. Insert vacutainer tube into holder
- 10. Prepare injection site and insert needle into vein
- 11. Advance vacutainer to end of holder
- 12. Remove vacutainer tube and set aside Insert another vacutainer tube, if needed Remove as much blood as needed
- 13. Remove needle and discard
- 14. Label blood tubes
- 15. Leave patient safe and comfortable
- 16. Send specimens to laboratory and record procedure

CLINICAL PRACTICE:

The LPN must successfully demonstrate the procedure a <u>minimum</u> of three (3) times. Additional successful demonstrations may be required at the instructor's discretion. Three (3) unsatisfactory performances in technique shall result in the LPNs termination from the IV Therapy course.

PERFORMANCE CHECKLIST: BLOOD SAMPLE WITH VACUTAINER

LICEN	ENT:		
	ISE # :		
SCHO	OL OR FACILITY:		
DATE	: -		
		SATISFACTORY	UNSATISFACTORY
1.	Checked medical order		
2.	Gathered equipment		
3.	Identified patient		
4.	Washed hands		
5.	Wore gloves		
6.	Located peripheral vein on correct patient		
7.	Cleaned the area using a circular motion with antiseptic swab		
8.	Screwed needle into plastic holder	- <u></u>	
9.	Inserted vacutainer tube into holder		
10.	Prepared injection site and inserted needle into vein		
11.	Advanced vacutainer to end of holder		
12.	Removed vacutainer tube and set aside		
	Inserted another vacutainer tube, if needed		
	Removed as much blood as needed		
13.	Removed needle and discarded		
14.	Labeled blood tubes		
15.	Left patient safe and comfortable		
16.	Sent specimens to laboratory and recorded procedure		
PERFO	DRMANCE CHECKLIST: BLOOD SAMPLE WITH VACU	JTAINER	
PASS			
(MUST	HAVE 100% SATISFACTORY PERFORMANCE)		
	linical instructor/preceptor must sign below and may write pe	rtinent comments a	and observations.
Each c			

PROCEDURE: VENIPUNCTURE – TRANSFER OF BLOOD TO TUBE

- 1. Check medical order
- 2. Gather equipment
- 3. Identify patient
- 4. Wash hands
- 5. Wear gloves
- 6. Locate peripheral vein on correct patient
- 7. Clean the area using a circular motion with antiseptic swab
- 8. Perform venipuncture using appropriate needle and syringe
- 9. Withdraw required amount of blood
- 10. Remove needle and apply pressure to site until hemostasis occurs
- 11. Remove needle from syringe and place in needle holder
- 12. Divide blood specimen into specimen tubes
- 13. Inject designated amount into tube
- 14. Place syringe to one side and place stoppers in tubes
- 15. Label blood tubes

CLINICAL PRACTICE:

The LPN must successfully demonstrate the procedure a minimum of three (3) times. Additional successful demonstrations may be required at the instructor's discretion. Three (3) unsatisfactory performances in technique shall result in the LPN's termination from the IV therapy course.

	SE # : DL OR FACILITY:			
	DE ORTACIEITT.			
			<u>SATISFACTORY</u>	UNSATISFACTORY
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13.	Performed venipuncture us Withdrew required amoun Removed needle and appli Removed needle from syri Divided blood specimen in Injected designated amour Placed syringe to one side Labeled blood tubes	ircular motion with antiseptising appropriate needle and tof blood led pressure to site until her nge and placed in needle ho ato specimen tubes at into tube and placed stoppers in tubes	ostasis occurred	
	RMANCE CHECKLIST:			
PASS _ MUST F	HAVE 100% SATISFACTORY	FAIL PERFORMANCE)		
Each cl	inical instructor/preceptor	r must sign below and ma	y write pertinent commer	nts and observations.
DATE		<u>COMMENTS</u>	SIGNATUR	<u>E</u>
				_

Procedure: Venipuncture

- 1. Check the medical order
- 2. Gather equipment
 - a. tourniquet
 - b. antiseptic swabs
 - c. butterfly needle or angiocath
 - d. tape
 - e. anti-microbial ointment
 - f. dressing materials
- 3. Identify the patient
- 4. Explain the procedure
- 5. Adjust lighting
- 6. Wash hands
- 7. Prepare the patient physically
 - a. provide for privacy
 - b. provide hospital gown
 - c. place patient in comfortable position
 - d. place towel under the arm
 - e. remove jewelry
- 8. Wash hands
- 9. Position self for comfort
- 10. Select a site
- 11. Put on gloves
- 12. Place a tourniquet above site selected
- 13. Locate a peripheral vein on correct patient
- 14. Clean the area using a circular motion with antiseptic swab
- 15. Insert the sterile IV needle/angiocath

16. Suggested procedure:

- a. hold at a 20-45 degree angle
- b. insert the needle with the bevel up
- c. lower hub of needle close to skin for insertion into vein
- d. observe tubing/flash back chamber for blood return
- e. allow blood to displace air in butterfly tubing
- f. thread cannula into vein if angiocath used
- g. release tourniquet prior to infusing primary fluid
- h. secure with a piece of tape
- 17. Connect IV solution if ordered, maintaining sterility
- 18. Start the correct IV solution to the correct patient at a KVO rate
- 19. Tape securely leaving site open for assessment
- 20. Apply sterile dressing
- 21. Tape arm board in position if necessary
- 22. Review movement restrictions with patient
- 23. Regulate IV infusion according to medical order
- 24. Dispose of used equipment
- 25. Wash hands
- 26. Record procedure
- 27. Suggested data to record:
 - a. IV site
 - b. Size of needle/angiocath
 - c. Date and time
 - d. Signature of nurse
 - e. Patient's response and/or number of attempts

CLINICAL PRACTICE:

The LPN must successfully demonstrate the procedure a minimum of three (3) times. Additional successful demonstrations may be required at the instructor's discretion. Three (3) unsatisfactory performances in technique shall result in the LPN's termination from the IV Therapy course.

PERFORMANCE CHECKLIST: VENIPUNCTURE

STU	DENT:		
LICE	:NSE #:		
SCH	OOL OR FACILITY:		<u></u>
DAT	E:		
		SATISFACTORY	UNSATISFACTORY
1.	Checked medical order		
2.	Calculated IV infusion rate		
3.	Washed hands		
4.	Located a peripheral vein on correct patient		
5.	Cleaned the area using a circular motion with antiseptic swab		
6.	Inserted the sterile IV needle/angiocath		
7.	Released tourniquet prior to infusing primary fluid		
8.	Connected IV solution if ordered, maintaining sterility		
9.	Taped securely, leaving site open for assessment		
10.	Applied sterile dressing		
11.	Regulated IV infusion according to medical order		
12.	Recorded procedure		
13.	Performed satisfactorily within the allotted time		

DEDECODMANCE CU	ECKLIST: VENIPUNCTURE	
(continued)	ECKLIST. VENIFUNCTURE	
	FAIL – SFACTORY PERFORMANCE)	
Each clinical instructo	r/preceptor must sign below and may	write pertinent comments and observations.
<u>DATE</u>	<u>COMMENTS</u>	<u>SIGNATURE</u>

PROCEDURE: INITIAL IV SITE

- 1. Check the medical order
 - a. Type solution
 - b. Amount of solution
 - c. Infusion rate
 - d. Sequence of solution if applicable
- 2. Calculate correct IV flow rate
- 3. Wash hands
- 4. Gather equipment
 - a. Solution
 - b. Tubing
 - c. Tape
 - d. IV pole
 - e. Antiseptic swab
- 5. Identify patient
- 6. Explain procedure
- 7. Set up equipment
 - a. Examine solution for:
 - (1) Cloudiness
 - (2) Particles
 - (3) Leakage
 - (4) Cracks in bottle or bag
 - (5) Expiration date
 - b. Open the package containing the tubing, maintaining sterility of all connectors.
 - c. Close regulator on the tubing
 - d. Open the entry area of the fluid container, maintaining sterility of the entry port
 - e. Clean the entry port with antiseptic swab if necessary
 - f. Insert the tubing spike into the fluid container through the correct entry port
 - g. Invert the bottle or bag with the tubing hanging down
 - h. Hang solution on IV pole
 - i. Fill the drip chamber half full with fluid
 - j. Displace air in tubing with fluid and close regulator
- 8. Examine the site for signs and symptoms of inflammation/infiltration
- Put on gloves
- 10. Connect the end of the IV tubing to the hub of the needle, maintaining sterility
- 11. Start the correct IV solution to the correct patient at a KVO rate

- 12. Tape securely, leaving site open for assessment
- 13. Apply sterile dressing
- 14. Tape arm board in position if necessary
- 15. Review movement restrictions with patient
- 16. Regulate IV infusion according to physician's order
- 17. Dispose of used equipment
- 18. Wash hands
- 19. Record procedure
- 20. Recommended data to record
 - a. Date and time
 - b. Type of solution
 - c. Amount of solution
 - d. Infusion rate
 - e. Tubing change
 - f. Assessment of needle site
 - g. Dressing change
 - h. Signature

CLINICAL PRACTICE:

The LPN must successfully demonstrate the procedure a minimum of three (3) times. Additional successful demonstrations may be required at the instructor's discretion. Three (3) unsatisfactory performances in technique shall result in the LPN's termination from the IV Therapy course.

PERFORMANCE CHECKLIST: INITIAL IV SITE

STUI	DENT:		
LICE	NSE #:		
SCHO	OOL OR FACILITY:		
DAT	E:		
		<u>SATISFACTORY</u>	UNSATISFACTORY
1.	Checked the medical order		-
	a. Type solutionb. Amount of solutionc. Infusion rated. Sequence of solution if applicable		
2.	Examined the site for signs and symptoms of inflammation/infiltration		
3.	Checked solution. Connected tubing and expelled Air from tubing, maintaining sterility		
4.	Connected the end of the IV tubing to the hub of the needle, maintaining sterility		
5.	Started the correct IV solution to the correct patient at a KVO rate		
6.	Taped securely, leaving site open for assessment		
7.	Applied sterile dressing		
8.	Regulated IV infusion according to medical order		
9.	Washed hands		
10.	Recorded procedure		
11	Performed satisfactorily within allotted time		

	FAIL ————————————————————————————————————	
Each clinical instructor	or/preceptor must sign below and may writ	e pertinent comments and obs
DATE	<u>COMMENTS</u>	SIGNATURE

PROCEDURE: DISCONTINUING IV FLUIDS AND/OR INT

1.	Check the medical orders
2.	Wash hands
3.	Collect equipment
	 a. Alcohol prep or 2 x 2 b. Band-Aid c. Antibiotic ointment (if required) d. Adhesive remover
4.	Identify patient
5.	Explain procedure to patient
6.	Wash hands
7.	Turn off intravenous fluid flow with regulator clamp
8.	Put on gloves
9.	Untape the intravenous needle and remove dressing
10.	Withdraw the needle/angiocath
11.	Apply pressure to the puncture site with the alcohol prep until hemostasis occurs
12.	Observe needle and/or angiocath for intactness, frayed edges
13.	Observe puncture area for signs and symptoms of inflammation, infection, bleeding
14.	Apply Band-Aid to puncture site (hospital policy may require antibiotic ointment)
15.	Observe amount and type of intravenous fluid remaining in bottle/bag
16.	Make patient comfortable
17.	Discard used equipment
18.	Wash hands
19.	Record procedure
20.	Suggested data to record:

- a. Amount and type of fluid remaining in bottle/bag
- b. Amount and type of fluid received by patientc. Condition of angiocath or needle (intact, frayed edge)

- d. Appearance of puncture site
- e. Patient tolerance of procedure
- f. Date
- g. Name
- h. Time

CLINICAL PRACTICE:

The LPN must successfully demonstrate the procedure a minimum of three (3) times. Additional successful demonstrations may be required at the instructor's discretion. Three (3) unsatisfactory performances in technique shall result in the LPN's termination from the IV Therapy course.

PERFORMANCE CHECKLIST: DISCONTINUING IV FLUIDS AND/OR INT

STUE	DENT:		
LICE	NSE #:		
SCHO	OOL OR FACILITY:		
DATI	3: —————		
		SATISFACTORY	UNSATISFACTORY
1.	Checked the medical orders		
2.	Washed hands		
3.	Collected equipment		
	 a. Alcohol prep or 2 x 2 b. Band-Aid c. Antibiotic ointment (if required) d. Adhesive remover 		
4.	Identified patient		
5.	Explained procedure to patient		
6.	Washed hands		-
7.	Turned off intravenous fluid flow with regulator clamp		
8.	Put on gloves		
9.	Untaped the intravenous needle and removed dressing		
10.	Withdrew the needle/angiocath		
11.	Applied pressure to the puncture site with the alcohol prep until hemostasis occured		
12.	Observed needle and/or angiocath for intactness, frayed edg	es	
13.	Observed puncture area for signs and symptoms of inflammation, infection, bleeding		
14.	Applied Band-Aid to puncture site (hospital policy may require antibiotic ointment)		

15.	Observed amount and type of intravenous fluid rebottle/bag	maining in			
16.	Made patient comfortable				
17.	Discarded used equipment				
18.	Washed hands				
19.	Recorded procedure				
21.	Suggested data to record:				
	 a. Amount and type of fluid remaining in bottle b. Amount and type of fluids received by patient c. Condition of angiocath or needle (intact, frayed) d. Appearance of puncture site e. Patient tolerance of procedure f. Date g. Name h. Time 				
PASS (MUST I	HAVE 100% SATISFACTORY PERFORMANCE)	- FAI.L —			
Each cl	inical instructor/preceptor must sign below and may	write pertinent	t comments and	observatio	ons.
<u>DATE</u>	COMMENTS		<u>SIGNATU</u>	<u>RE</u>	

PROCEDURE: EXISTING IV SITE - NEW SOLUTION AND NEW TUBING

- 1. Check the medical order
 - a. Type solution
 - b. Amount of solution
 - c. Infusion rate
 - d. Sequence of solution if applicable
- 2. Calculate correct IV flow rate
- 3. Wash hands
- 4. Gather equipment
 - a. Solution
 - b. Tubing
 - c. Tape
 - d. IV pole
 - e. Antiseptic swab
- 5. Identify patient
- 6. Explain procedure
- 7. Set up equipment
 - a. Examine solutions for:
 - (1) Cloudiness
 - (2) Particles
 - (3) Leakage
 - (4) Cracks in bottle or bag
 - (5) Expiration date
 - b. Open the package containing the tubing, maintaining sterility of all connectors
 - c. Close regulators on the tubing
 - d. Open the entry area of the fluid container, maintaining sterility of the entry port
 - e. Clean the entry port with antiseptic swab if necessary
 - f. Insert the tubing spike into the fluid container through the correct entry port
 - g. Invert the bottle or bag with the tubing hanging down
 - h. Hang solution on IV pole
 - i. Fill the drip chamber half full with fluid
 - j. Displace air in tubing with fluid and close regulator
- 8. Examine the site for signs and symptoms of inflammation/infiltration
- Put on gloves
- 10. Connect the end of the IV tubing to the hub of the needle, maintaining sterility

- 11. Start the correct IV solution to the correct patient at a KVO rate
- 12. Tape securely, leaving site open for assessment
- 13. Apply sterile dressing
- 14. Tape arm board in position if necessary
- 15. Review movement restrictions with patient
- 16. Regulate IV infusion according to medical order
- 17. Dispose of used equipment
- 18. Wash hands
- 19. Record procedure
- 20. Recommended date to record:
 - a. Date and time
 - b. Type of solution
 - c. Amount of solution
 - d. Infusion rate
 - e. Tubing change
 - f. Assessment of needle site
 - g. Dressing change
 - h. Signature

CLINICAL PRACTICE:

The LPN must successfully demonstrate the procedure a minimum of three (3) times. Additional successful demonstrations may be required at the instructor's discretion. Three (3) unsatisfactory performances in technique shall result in the LPN's termination from the IV Therapy course.

PERFORMANCE CHECKLIST: EXISTING IV SITE—NEW SOLUTION AND NEW TUBING

STUD	DENT:		
LICE	NSE # OR SOCIAL SECURITY #:		
SCHO	OOL OR FACILITY:		
DATE	3:		
		SATISFACTORY	UNSATISFACTORY
1.	Checked the medical order		
	a. Type solutionb. Amount of solutionc. Infusion rated. Sequence of solution if applicable		
2.	Examined the site for signs and symptoms of inflammation/infiltration		
3.	Checked solution. Connected tubing and expelled air from tubing, maintaining sterility		
4.	Connected the end of the IV tubing to the hub of the needle, maintained sterility		
5.	Started the correct IV solution to the correct patient at a KVO rate		
6.	Taped securely, leaving site open for assessment		
7.	Applied sterile dressing		
8.	Regulated IV infusion according to medical order		
9.	Washed hands		
10.	Recorded procedure		
11.	Performed satisfactorily within allotted time		

PERFORMANCE CHECK (continued)	ILIST: EXISTING	IV SITENEW SOLUTION AND NEW TU	JBING
PASS(MUST HAVE 100% SAT	FAI TSFACTORY PERFORMANO	IL ————————————————————————————————————	
Each clinical instructor/pre	eceptor must sign below and m	nay write pertinent comments and observation	18.
<u>DATE</u>	<u>COMMENTS</u>	<u>SIGNATURE</u>	

PROCEDURE: PIGGYBACK ADMINISTRATION OF PRE-MIXED ANTIBIOTIC MEDICATIONS

- 1. Check MAR and Kardex against the medical order
 - a. Patient's name
 - b. Type of medication
 - c. Dose
 - d. Time
 - e. Date of order
 - f. Allergies
 - g. Route
- 2. Report inconsistencies to charge nurse
- 3. Verify the compatibility of all antibiotic medications and fluids being mixed
- 4. Wash hands
- 5. Gather equipment
 - a. Solution
 - b. Secondary tubing
 - c. Antiseptic swab
 - d. Needle and syringe
- 6. Secure correct antibiotic medication
- 7. Calculate correct infusion rate for IVPB
- 8. Open the package containing the tubing, maintaining sterility of all connectors
- 9. Close slide clamp
- 10. Attach tubing spike to solution using sterile technique
- 11. Apply needle to distal end of tubing using sterile technique
- 12. Fill drip chamber half full
- 13. Open side clamp
- 14. Displace air in IVPB tubing and closing slide clamp
- 15. Identify patient
- 16. Explain procedure
- 17. Hang solution on IV pole
- 18. Lower primary bottle with extension hook

PROCEDURE: PIGGYBACK ADMINISTRATION OF PRE-MIXED ANTIBIOTIC MEDICATIONS (continued)

- 19. Check to see that existing IV is functioning properly
- 20. Clean the injection port on primary line with an antiseptic swab and insert needle
 - a. COMPATIBLE MEDICATIONS:
 - (1) Open IVPB slide clamp
 - (2) Administer correct dose of correct IVPB antibiotic medicine to the correct patient at the correct rate maintaining sterility
 - (3) After completion of IVPB, close slide clamp on IVPB tubing and raise primary solution to previous level
 - b. INCOMPATIBLE MEDICATIONS:
 - (1) Clamp tubing and flush with normal saline
 - (2) Administer correct dose of correct IVPB antibiotic medicine to the correct patient at the correct rate maintaining sterility
 - (3) After completion of IVPB, flush with normal saline
 - (4) Unclamp primary tubing
- 21. Regulate primary line according to medical order
- 22. Administer antibiotic medication 30 minutes of scheduled time
- 23. Dispose of used equipment
- 24. Wash hands
- 25. Record procedure
- 26. Suggested data to record:
 - a. Medication
 - b. Dose
 - c. Route
 - d. Patient's response
 - e. Infusion rate
 - f. Signature
 - g. Time

CLINICAL PRACTICE:

The LPN must successfully demonstrate the procedure a minimum of three (3) times. Additional successful demonstrations may be required at the instructor's discretion. Three (3) unsatisfactory performances in technique shall result in the LPN's termination from the IV Therapy course.

PERF	FORMANCE CHECKLIST: PIGGYBACK ADM	INISTRATION OF PRE-MIX	ED ANTIBIOTIC MEDICATION
STUI	DENT:		
LICE	NSE #:		
SCHO	OOL OR FACILITY:		
DATI	E:		
		<u>SATISFACTORY</u>	UNSATISFACTORY
1.	Checked MAR and Kardex against the medical	al orde <u>r</u>	
	 a. Patient's name b. Type of medication c. Dose d. Time e. Date of order f. Allergies g. Route 		
2.	Reported inconsistencies to charge nurse		
3.	Verified the compatibility of all medications and fluids being mixed		
l.	Washed hands		
5.	Checked to see that existing IV was functioning properly.	ng	
õ.	Cleaned the injection port on primary line wit an antiseptic swab and inserted needle	th	
7.	a. COMPATIBLE MEDICATIONS:		
	 Opened IVPB slide clamp Administered correct dose of corre IVPB antibiotic medicine to the copatient at the correct rate maintain sterility After completion of IVPB, closed sclamp on IVPB tubing and raised production to previous level 	orrect ing	

PERFORMANCE CHECKLIST: PIGGYBACK ADMINISTRATION OF PRE-MIXED ANTIBIOTIC MEDICATIONS (continued)

	b.	INCOMPATIBLE MEDICATIONS:				
		 Clamped tubing and flushed with normal saline Administered correct dose of correct IVPB antibiotic medicine to the correct patient at the correct rate maintaining sterility After completion of IVPB, flushed with normal saline Unclamped primary tubing 				
8.	Regulated primary line according to medical order					
9.	Administered medication ± 30 minutes of scheduled time					
10.	Recorded procedure					
11.	Performed satisfactorily within the allotted time					
(MUST H	IAVE 10	FAIL		tions.		
<u>DATE</u>		<u>COMMENTS</u> <u>SIGNATURE</u>				
				_		
				_		
				_		
				_		

PROCEDURE: ADMINISTRATION OF PRE-MIXED ANTIBIOTIC MEDICATION PER INT

- 1. Check the MAR or medicine card and Kardex against the medical order
 - a. Patient's name
 - b. Type of medication
 - c. Dose
 - d. Time
 - e. Date of order
 - f. Allergies
 - g. Route
- 2. Report inconsistencies to charge nurse
- 3. Verify the compatibility of all antibiotic medications and fluids being mixed
- 4. Wash hands
- 5. Gather equipment
 - a. Medication
 - b. Saline flush
 - c. Heparin flush
 - d. Antiseptic swabs
- 6. Prepare the correct antibiotic medication
- 7. Identify patient
- 8. Identify injection port
- 9. Clean the port with an antiseptic swab
- 10. Check to see that INT is functioning properly
- 11. Administer correct dose of correct medicine to the correct patient at the correct rate, maintaining sterility
- 12. Flush INT with appropriate amount of saline and/or heparinized saline according to hospital policy, at the correct rate
- 13. Withdraw needle, maintaining positive pressure
- 14. Observe the patient during procedure
- 15. Administer medication \pm 30 minutes of scheduled time
- 16. Dispose of used equipment
- 17. Wash hands
- 18. Record procedure

19. Suggested data to record

- a. Medication
- b. Dose
- c. Route
- d. Patient response
- e. Rate, if indicated
- f. INT flushed
- g. Nurse's signature
- h. Time

CLINICAL PRACTICE:

The LPN must successfully demonstrate the procedure a minimum of three (3) times. Additional successful demonstrations may be required at the instructor's discretion. Three (3) unsatisfactory performances in technique shall result in the LPN's termination from the IV therapy course.

PERFORMANCE CHECKLIST: ADMINISTRATION OF PRE-MIXED ANTIBIOTIC MEDICATION PER INT STUDENT: LICENSE #: ____ SCHOOL OR FACILITY: DATE: **SATISFACTORY UNSATISFACTORY** 1. Checked the MAR or medicine card and Kardex against the medical order Patient's name b. Type of medication c. Dose d. Time e. Date of order Allergies f. Route 2. Reported inconsistencies to charge nurse 3. Verified the compatibility of all antibiotic medications and fluid being mixed Washed hands 5. Cleaned the port with an antiseptic swab 6. Checked to see that the INT was functioning properly a. Examined the INT site for signs and symptoms of inflammation/infiltration b. Flushed INT with appropriate amount of saline c. If resistance met, did not flush 7. Administered correct dose of correct medication to the correct patient at the correct rate, maintaining sterility. 8. Flushed INT with appropriate amount of saline, flush solution, or heparinized saline according to hospital policy, at the correct rate 9. Observed the patient during procedure

10. Administered medication + 30 minutes of scheduled

time

11. Recorded procedure						
12. Performed satisfactor	orily within the allotted time					
	FAILFACTORY PERFORMANCE)					
Each clinical instructor/	preceptor must sign below and ma	y write pertinent comments and o	bservations.			
<u>DATE</u>	<u>COMMENTS</u>	<u>SIGNATURE</u>				

PROCEDURE: ASSIST RN WITH CENTRAL VENOUS INFUSION – CHECKING INFUSION RATE AND CHANGING SITE DRESSING

- 1. Check the medical order
 - a. Type solution
 - b. Amount of solution
 - c. Infusion rate
- 2. Calculate correct IV flow rate
- 3. Wash hands
- 4. Identify patient
- 5. Explain procedure
- 6. Examine the site for signs and symptoms of inflammation/infiltration
- 7. Put on gloves
- 8. Apply sterile dressing
- 9. Review movement restrictions with patient
- 10. Check rate according to medical orders (do not change rate)
- 11. Dispose of used equipment and supplies
- 12. Wash hands
- 13. Record procedure and report to R.N.
- 14. Recommended data to record:
 - a. Date and time
 - b. Type of solution
 - c. Amount of solution
 - d. Infusion rate
 - e. Appearance of site
 - f. Dressing change
 - g. Signature

CLINICAL PRACTICE:

The LPN must successfully demonstrate the procedure a minimum of three (3) times. Additional successful demonstrations may be required at the instructor's discretion. Three (3) unsatisfactory performances in technique shall result in the LPN's termination from the IV Therapy course.

PERFORMANCE CHECKLIST: ASSIST RN WITH CENTRAL VENOUS INFUSION—CHECKING INFUSION RATE AND CHANGING SITE DRESSING

ST	CUDENT:		
LI	CENSE # OR SOCIAL SECURITY #:		
SC	CHOOL OR FACILITY:		
D	ATE:		
		<u>SATISFACTORY</u>	UNSATISFACTORY
1.	Checked medical order		
	a. Type of solutionb. Amount of solutionc. Infusion rate		
2.	Calculated correct IV flow rate		
3.	Washed hands		
4.	Examined the site for signs and symptoms of inflammation/infiltration		
5.	Applied sterile dressing		
6.	Checked rate according to medical orders (do <u>not</u> change rate)		
7.	Washed hands		
8.	Recorded procedure and reported to RN		
9.	Performed satisfactorily within allotted time		
(M	ASS FAIL - UST HAVE 100% SATISFACTORY PERFORMANCE) ch clinical instructor/preceptor must sign below and m		
	ATE COMMENTS	SIGNATUR	